

CLAIMS:

1 1. A base station for use in a wireless network, the base station comprising:
2 a wireless air interface for communicating with a wireless endpoint;
3 a Internet Protocol (IP) router for routing packets over an IP-based packet
4 network; and
5 a processor for converting signaling messages received from the wireless air
6 interface to a common signaling format for transmission via the IP router.

1 2. The base station of claim 1 wherein the common signaling format is ITU H.323.

1 3. The base station of claim 1 wherein the wireless air interface comprises at least
2 two different types of wireless air interfaces.

1 4. The base station of claim 1 wherein the IP router queries the IP-based network
2 for forming a routing table for use in routing packets from other packet endpoints of the
3 IP-based network.

1 5. The base station of claim 4 wherein the IP router routes packets from one base
2 station to another base station.

1 6. The base station of claim 4 wherein the IP router uses an Open Shortest Path
2 First (OSPF) based protocol for forming the routing table.

1 7 The base station of claim 4 wherein the IP router uses an Interior Gateway
2 Routing Protocol (IGRP) based protocol for forming the routing table.

1 8. A wireless infrastructure network comprising:
2 at least one base station for communicating information between a wireless
3 endpoint and an Internet Protocol (IP) based packet network;
4 at least one server, which is accessed by the base station for establishing a
5 telephone call between the wireless endpoint and another endpoint; and
6 at least one router, coupled to the IP based packet network, for routing
7 communications transmitted from the base station to the server;

8 wherein the wireless infrastructure network does not include a mobile switching
9 center (MSC).

1 9. The wireless infrastructure network of claim 8 wherein the base station
2 comprises a router portion for routing packets through the base station to other portions
3 of the IP based packet network.

1 10. The wireless infrastructure network of claim 8 further comprising a gateway
2 server for coupling to a switched network.

1 11. The wireless infrastructure network of claim 8 further comprising a gateway
2 server for coupling to another IP-based network.

1 12. The wireless infrastructure network of claim 11 wherein the gateway provides
2 Internet access.

1 13. The wireless infrastructure network of claim 11 wherein the gateway provides
2 access to an intranet.